

Sync 1 24	SB1 4	Sync 2 16	SB2 4
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FIGURE 1

Sync 1 24	SB1 2	Data 16	SB2 4
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FIGURE 4

d	x x x x	0 0 0 1 1 0 1 0	x x x x
3	0 0 0 1	1 0 1 0	
3	0 0 0	1 1 0 1 0	
3	0 0	0 1 1 0 1 0	
4	0	0 0 1 1 0 1 0	
0		0 0 0 1 1 0 1 0	
4		0 0 0 1 1 0 1	0
3		0 0 0 1 1 0	1 0
3		0 0 0 1 1	0 1 0
3		0 0 0 1	1 0 1 0
d	x x x x	0 0 0 1 1 0 1 0	x x x x

FIGURE 5

FIG. 2 is a block diagram of a VCM control system for a hard disk drive. The system includes a hard disk drive 200, a VCM 201, a PES 202, a DEMODULATOR 203A, a TRACK POSITION 203B, a SUMMING JUNCTION 204, an ADC 205, a CONTROLLER 206, a FILTER 207, a DAC 208, a DRIVER 209, and a VCM 210. The hard disk drive 200 is connected to the VCM 201. The VCM 201 is connected to the PES 202. The PES 202 is connected to the DEMODULATOR 203A. The DEMODULATOR 203A outputs a TRACK POSITION signal 203B to the SUMMING JUNCTION 204. The SUMMING JUNCTION 204 also receives a feedback signal from the VCM 210. The output of the SUMMING JUNCTION 204 is fed into the ADC 205, which is connected to the CONTROLLER 206. The CONTROLLER 206 outputs a control signal to the FILTER 207, which is connected to the DAC 208. The DAC 208 outputs a control signal to the DRIVER 209, which is connected to the VCM 210. The VCM 210 outputs a CURRENT signal to the VCM 210.

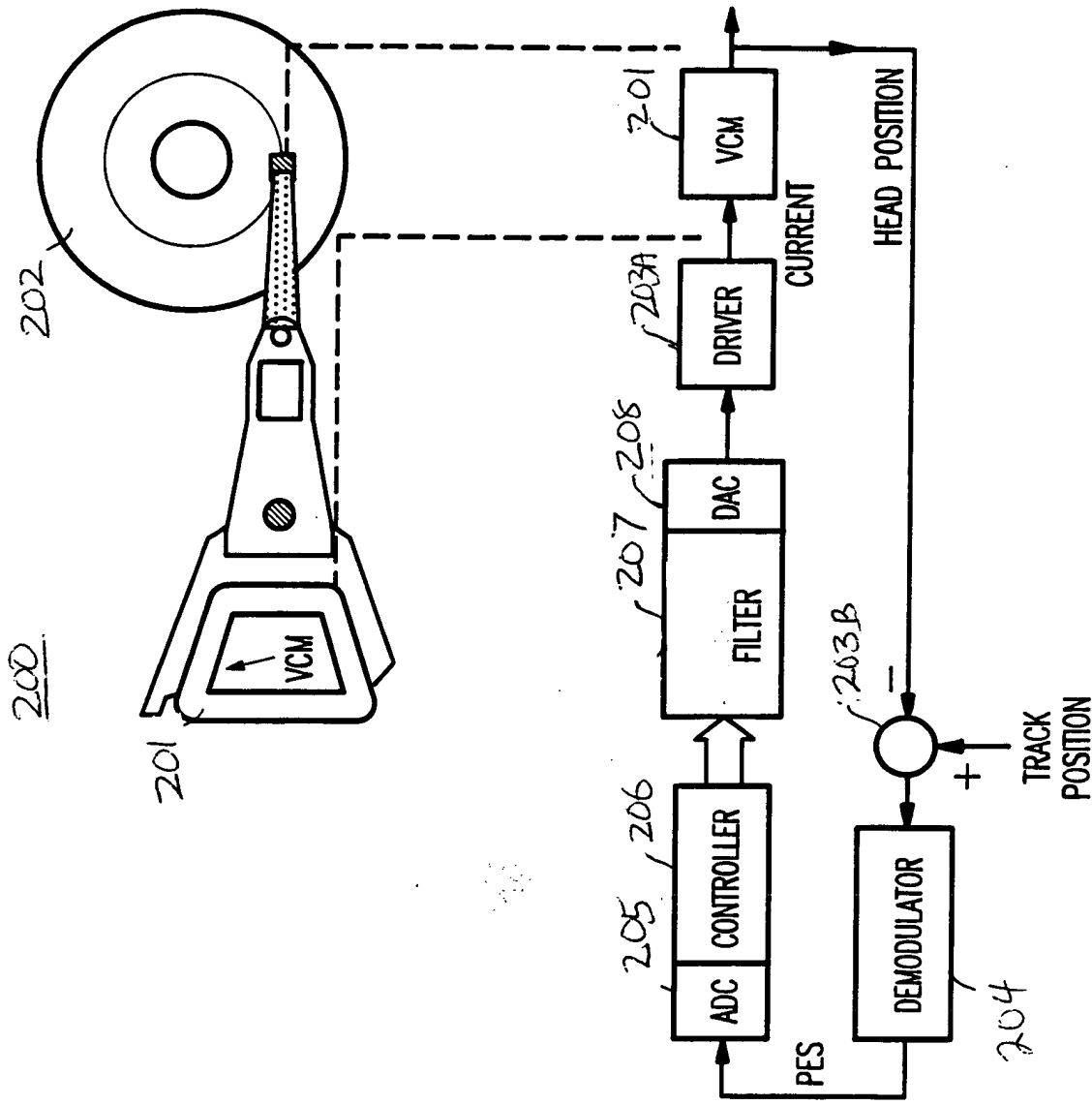
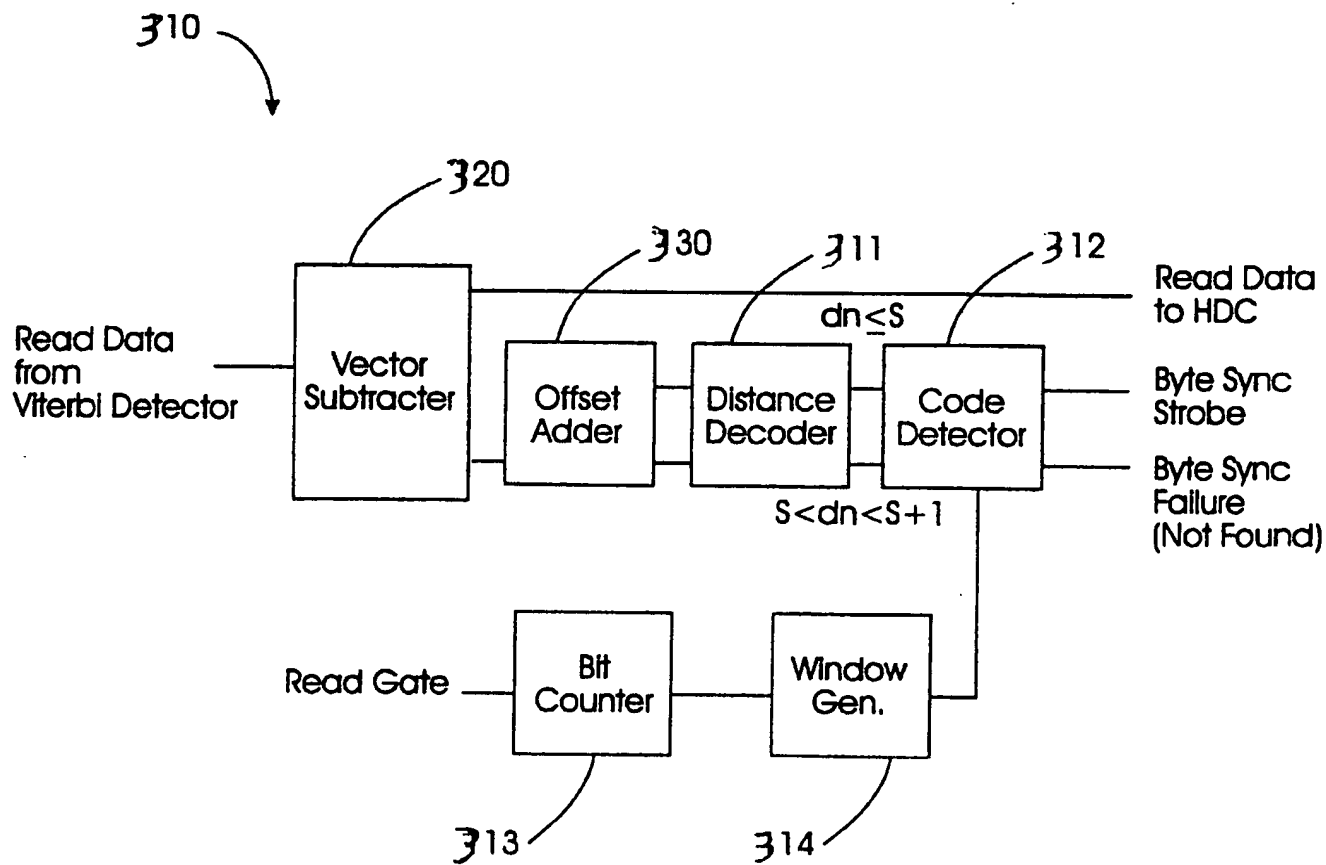


FIG. 2



Prior Art

FIG. 3

FIG. 6 is a block diagram of a computer system 600.

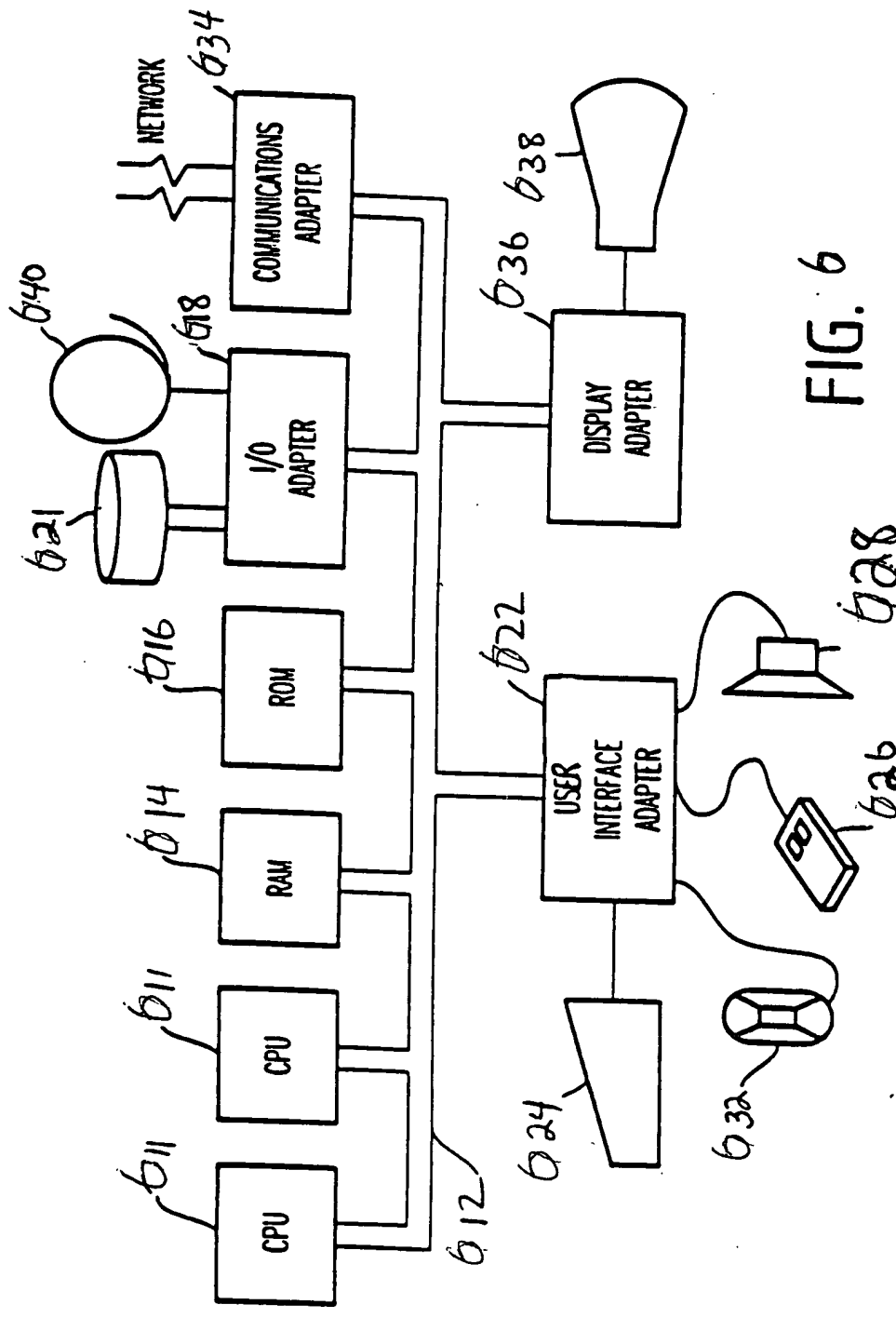


FIG. 6

FIG. 7

